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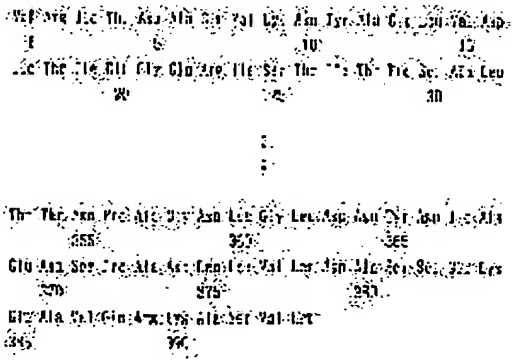
(54) DNA CONTAINING GENETIC INFORMATION OF PROTEIN HAVING CREATININE DEIMINASE ACTIVITY AND PRODUCTION OF CRETININE DEIMINASE

(57)Abstract:
PURPOSE: To provide a process for producing a large amount of creatinine deiminase in pure form at a low cast by using a genetic engineering technique.
CONSTITUTION: This invention relates to a DNA fragment having the genetic information of a creatinine deiminase which is a DNA coding the amino acid sequence described in the sequence table, a recombination vector containing the DNA fragment, a transformant transformed with the recombination vector and a process for the production of creatinine deiminase characterized by the culture of the transformant in a medium in the absence of creatinine and the separation of the produced creatinine deiminase from the cultured product.



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* NOTICES *

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

CLAIMS

[Claim(s)]
[Claim 1] The DNA fragment which has the proteinic genetic information which has creatinine deiminase activity.
[Claim 2] The DNA fragment indicated by claim 1 which carries out the code of the amino acid sequence indicated by the array number 2 of an array table.
[Claim 3] The DNA fragment indicated by claim 1 containing the base sequence indicated by the array number 1 of an array table.
[Claim 4] The recombination vector which has the DNA fragment indicated by claim 2.
[Claim 5] The transformant by which the transformation was carried out by the recombination vector indicated by claim 4.
[Claim 6] The manufacturing method of the creatinine deiminase characterized by cultivating the transformant indicated by claim 5 by the culture medium, making the creatinine deiminase generate, and extracting this creatinine deiminase.
[Claim 7] The manufacturing method of the creatinine deiminase indicated by claim 6 characterized by cultivating at the temperature near about 37 degree C.

[Translation done.]